



## SEQUENCE LISTING

<110> BuCK, Linda  
Axel, Richard

<120> ODORANT RECEPTORS AND USES THEREOF

<130> 0575/38586-B/JPW/ADM

<150> US 08/129,079

<151> 1993-10-05

<160> 98

<170> PatentIn version 3.0

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cccatgtact tcttctctg caacctctcc ttctgggaga tctgggtcac cacagcctgc      240
gtaccaaga ccctggccac atttgccct cggggtggag tcatttctt ggctggctgt      300

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gccacacaga tgtactttgt cttttctttg ggctgtaccg agtacttcoet gctggctgtg	360
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945

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Phe Phe Ile Leu Phe Val Val Leu Asp Ser Leu Leu Leu Thr Val Met  
35 40 45  
Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu His Tyr Thr Val  
50 55 60  
Ile Met Ser Ser Trp Leu Cys Gly Leu Leu Val Leu Val Ser Trp Ile  
65 70 75 80  
Val Ser Ile Leu Tyr Ser Leu Leu Gln Ser Ile Met Ala Leu Gln Leu  
85 90 95  
Ser Phe Cys Thr Glu Leu Lys Ile Pro Gln Phe Phe Cys Glu Leu Asn  
100 105 110  
Gln Val Ile His Leu Ala Cys Ser Asp Thr Phe Ile Asn Asp Met Met  
115 120 125  
Met Asn Phe Thr Ser Val Leu Leu Gly Gly Gly Cys Leu Ala Gly Ile  
130 135 140  
Phe Tyr Xaa Tyr Phe Lys Ile Leu Cys Cys Ile Cys Ser Ile Ser Ser  
145 150 155 160  
Ala Gln Gly Met Asn Lys Ala Leu Ser Thr Cys Ala Ser His Leu Ser  
165 170 175  
Val Val Ser Leu Phe Tyr Cys Thr Gly Val Gly Val Tyr Leu Ser Ser  
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ttctacactt ttgggtgtgt accttagttc ttcttttacc caaaactcac actcaactgc    600
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Phe Ser Tyr Ser Leu Glu Phe Trp Thr Thr Phe Phe Ser Thr Val Met
          35          40          45
Ala Tyr Asp Arg Tyr Val Ala Ile Cys His Pro Ser Xaa Tyr Thr Gly
          50          55          60
His His Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
```

65	70	75	80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	85	90	95
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	100	105	110
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	115	120	125
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr	130	135	140
Ser Tyr Ser Lys Ile Val Ser Ser Ile Arg Glu Ile Ser Ser Ser Gln	145	150	155
Gly Lys Tyr Lys Xaa Phe Ser Thr Cys Ala Ser His Leu Ser Val Val	165	170	175
Ser Leu Phe Tyr Ser Thr Leu Leu Gly Val Tyr Leu Ser Ser Ser Phe	180	185	190
Thr Gln Asn Ser His Ser Thr Ala Arg Ala Ser Val Met Tyr Ser Val	195	200	205
Val Thr Pro Met Leu	210		

<210> 15  
 <211> 636  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> Clone: J2

<400> 15	
acctccacca ccattccaaa gatgctggta aatatacaca cccagagcaa tactatcacc	60
tatgaagact gtatttccca gatgtttgta ctcttggttt ttggagaact ggacaacttt	120
ctcctggctg tgatggccta tgatcgatat gtggctatct gtcacccact gtattacaca	180
gtcattgtga accaccgact ctgtatcctg ctgcttctgc tgcctgggt tgcagcatt	240
ttacatgcct tttacagag cttaattgta ctacagttga ccttctgtgg agatgtgaaa	300
atccctcact tcttctgtga gctcaatcag ctgtcccaac tcacatgttc agacaacttt	360
ccaagtcacc tcacaatgca tcttgtacct gttatatttg cagctatttc cctcagtgg	420
atcctttact cttatttcaa gatagtgtct tccatacgtt ctatgtcctc agttcaaggg	480
aagtacaagg cattttctac atgtgcctct cacctttcca ttgtctcctt attttatagt	540

acaggcctcg ggggtgtaagt cagttctgct gtgatccgaa gctcacactc ctctgcaagt 600

gcttcgggtca tgtataactgt ggtcaccccc atgttg 636

<210> 16  
<211> 212  
<212> PRT  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<223> Clone: J2

<400> 16

Thr	Ser	Thr	Thr	Ile	Pro	Lys	Met	Leu	Val	Asn	Ile	His	Thr	Gln	Ser
1				5					10					15	
Asn	Thr	Ile	Thr	Tyr	Glu	Asp	Cys	Ile	Ser	Gln	Met	Phe	Val	Leu	Leu
		20						25					30		
Val	Phe	Gly	Glu	Leu	Asp	Asn	Phe	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp
	35						40					45			
Arg	Tyr	Val	Ala	Ile	Cys	His	Pro	Leu	Tyr	Tyr	Thr	Val	Ile	Val	Asn
	50					55					60				
His	Arg	Leu	Cys	Ile	Leu	Leu	Leu	Leu	Leu	Ser	Trp	Val	Val	Ser	Ile
65				70						75					80
Leu	His	Ala	Phe	Leu	Gln	Ser	Leu	Ile	Val	Leu	Gln	Leu	Thr	Phe	Cys
			85						90					95	
Gly	Asp	Val	Lys	Ile	Pro	His	Phe	Phe	Cys	Glu	Leu	Asn	Gln	Leu	Ser
		100						105					110		
Gln	Leu	Thr	Cys	Ser	Asp	Asn	Phe	Pro	Ser	His	Leu	Thr	Met	His	Leu
	115						120					125			
Val	Pro	Val	Ile	Phe	Ala	Ala	Ile	Ser	Leu	Ser	Gly	Ile	Leu	Tyr	Ser
	130					135					140				
Tyr	Phe	Lys	Ile	Val	Ser	Ser	Ile	Arg	Ser	Met	Ser	Ser	Val	Gln	Gly
145					150					155					160
Lys	Tyr	Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Ser	Ile	Val	Ser
			165					170					175		
Leu	Phe	Tyr	Ser	Thr	Gly	Leu	Gly	Val	Tyr	Val	Ser	Ser	Ala	Val	Ile
		180					185						190		
Arg	Ser	Ser	His	Ser	Ser	Ala	Ser	Ala	Ser	Val	Met	Tyr	Thr	Val	Val
	195						200					205			

Thr Pro Met Leu  
210

<210> 17  
<211> 646  
<212> DNA  
<213> Rattus sp.  
  
<220>  
<221> misc\_feature  
<223> clone: J4

<400> 17  
cataggctat tcattctctg tcacacccaa tatgcttgtc aacttcctta taaagcaaaa 60  
taccatctca taccttggat gttctataca gtttggtcca gctgctttgt ttggaggtct 120  
tgaatgcttc cttctggctg ccatggcgta tgatcgtttt gtagcaatct gcaaccact 180  
gctttattca acgaaaatgt ccacacaagt ctgtgtccag ttggttgtgg gatcttatat 240  
aggggggattt cttaatgcct cctcttttac cctttccttt ttttccttgt ccttctgtgg 300  
accaaataga atcaatcact tttactgtga ttttgctccg ttagtagaac tttcttgctc 360  
tgatgtcagt gttcctgatg ctgttacctc attttctgct gcctcagtta ctatgtcac 420  
agtgtttatc atagccatct cctataccta taccctcatc accatcctga agatgcgttc 480  
cactgagggt cgacagaaag cattctctac ctgcaattcc cacctcactg cagtcactct 540  
gtgctatgga accatcacat tcattctatgt gatgcccaag tccagctact ccacagacca 600  
gaacaagggtg gtgtctgtgt tttatatggt ggtgatcccc atgttg 646

<210> 18  
<211> 215  
<212> PRT  
<213> Rattus sp.  
  
<220>  
<221> misc\_feature  
<223> Clone: J4

<400> 18

Ile Gly Tyr Ser Ser Ser Val Thr Pro Asn Met Leu Val Asn Phe Leu  
1 5 10 15  
Ile Lys Gln Asn Thr Ile Ser Tyr Leu Gly Cys Ser Ile Gln Phe Gly  
20 25 30  
Ser Ala Ala Leu Phe Gly Gly Leu Glu Cys Phe Leu Leu Ala Ala Met  
35 40 45



gattgtggtt tccatcacct atgggagctg tatttttcac tacatcaaac cttcagcgaa 420  
 ggaaggggta gccatcaata aggttgatc tgtgtgcaca acatcagtcg cccctttgct 480  
 c 481

<210> 20  
 <211> 160  
 <212> PRT  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> Clone: J7

<400> 20

Ile	Cys	Lys	Pro	Leu	His	Tyr	Thr	Thr	Ile	Met	Asn	Asn	Arg	Val	Cys	1	5	10	15
Thr	Val	Leu	Val	Leu	Ser	Cys	Trp	Phe	Ala	Gly	Leu	Leu	Ile	Ile	Leu	20	25	30	
Pro	Pro	Leu	Gly	His	Gly	Leu	Gln	Leu	Glu	Phe	Cys	Asp	Ser	Asn	Val	35	40	45	
Ile	Asp	His	Phe	Gly	Cys	Asp	Ala	Ser	Pro	Ile	Leu	Gln	Ile	Thr	Cys	50	55	60	
Ser	Asp	Thr	Val	Phe	Ile	Glu	Lys	Ile	Val	Leu	Ala	Phe	Ala	Ile	Leu	65	70	75	80
Thr	Leu	Ile	Ile	Thr	Leu	Val	Cys	Val	Val	Leu	Ser	Tyr	Thr	Tyr	Ile	85	90	95	
Ile	Lys	Thr	Ile	Leu	Lys	Phe	Pro	Ser	Ala	Gln	Gln	Arg	Lys	Lys	Ala	100	105	110	
Phe	Ser	Thr	Cys	Ser	Ser	His	Met	Ile	Val	Val	Ser	Ile	Thr	Tyr	Gly	115	120	125	
Ser	Cys	Ile	Phe	Ile	Tyr	Ile	Lys	Pro	Ser	Ala	Lys	Glu	Gly	Val	Ala	130	135	140	
Ile	Asn	Lys	Val	Val	Ser	Val	Leu	Thr	Thr	Ser	Val	Ala	Pro	Leu	Leu	145	150	155	160

<210> 21  
 <211> 481  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> n = any



<220>  
<221> misc\_feature  
<223> Clone: J8

<400> 21  
catctgccac ccgctccact actctcttct catgagtctt gacaactgtg ctgctctggt 60  
aacagtctcc tgggtgacag ggggtgggcac gggcttcttg ccttccctcc tgatttctaa 120  
gttggacttc tgtgggcccac accgcatcaa ccatttcttc tgtgacctcc ctccattaat 180  
ccagctgtcc tgctccagcg tctttgtgac agaaatggcc atctttgtcc tgtccatcgc 240  
tgtgctctgc atctgtttcc tcctaaccn nnnntcctac attttcatag tgcctccat 300  
tctgagaatc ccttccacta ccggcaggat gaagacattt tctacatgtg gctcccacct 360  
ggcgtgggtc accatctact atgggacat gatctccatg tatgtcggcc caaatgcgca 420  
tctgtcccg gagctcaaca aggtcatttc tgtcttctac actgtgatca cccactact 480  
g 481

<210> 22  
<211> 160  
<212> PRT  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<223> x = any

<220>  
<221> misc\_feature  
<223> Clone: J8

<400> 22

Ile Cys His Pro Leu His Tyr Ser Leu Leu Met Ser Pro Asp Asn Cys  
1 5 10 15  
Ala Ala Leu Val Thr Val Ser Trp Val Thr Gly Val Gly Thr Gly Phe  
20 25 30  
Leu Pro Ser Leu Leu Ile Ser Lys Leu Asp Phe Cys Gly Pro Asn Arg  
35 40 45  
Ile Asn His Phe Phe Cys Asp Leu Pro Pro Leu Ile Gln Leu Ser Cys  
50 55 60  
Ser Ser Val Phe Val Thr Glu Met Ala Ile Phe Val Leu Ser Ile Ala

65	70	75	80
Val Leu Cys Ile Cys Phe Leu Leu Thr Xaa Xaa Ser Tyr Ile Phe Ile			
85	90	95	
Val Ser Ser Ile Leu Arg Ile Pro Ser Thr Thr Gly Arg Met Lys Thr			
100	105	110	
Phe Ser Thr Cys Gly Ser His Leu Ala Val Val Thr Ile Tyr Tyr Gly			
115	120	125	
Thr Met Ile Ser Met Tyr Val Gly Pro Asn Ala His Leu Ser Pro Glu			
130	135	140	
Leu Asn Lys Val Ile Ser Val Phe Tyr Thr Val Ile Thr Pro Leu Leu			
145	150	155	160

<210> 23  
 <211> 646  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> n = any

<220>  
 <221> misc\_feature  
 <223> Clone: J11

<400> 23	
ngtctgcttc tcctccacca ctgtcccaa ggtactggct aaccacatac tcagtagtca	60
ggccatttcc ttctctgggt gtctaactca gctgtatttt ctctgtgtgt ctgtgaatat	120
ggacaatttc ctgctggctg tgatggccta tgacagattt gtggccatat gccacccttt	180
gtactacaca acaaagatga cccaccagct ctgtgtcttg ctggtgtctg gatcannnnn	240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgtgatca tggtcacccc	420
atttgtctgc atcctcatct cttacatcta catcaccaat gcagtcctca gagtctcatc	480
ctttagggga ggatggaaag ccttctccac ctgtggctca cacctggctg tggctctgct	540
cttctatggc accatcattg ctgtgtattt caatcctgta tcttcccatt catctgagaa	600
ggacactgca gcaactgtgc tatacacagt ggtgactccc atgttg	646

<210> 24



<210> 25  
<211> 646  
<212> DNA  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<223> n = any

<220>  
<221> misc\_feature  
<223> Clone: J14

<400> 25  
tgtctgcttc tcctccacca ctgtcccca ggtactggct aaccacatac tcagtagtca 60  
ggccatttcc ttctctgggt gtctaactca gctgtatttt ctctgtgtgt ctgtgaatat 120  
ggacaatttc ctgctggctg tgatggccta tgacagattt gtggccatat gccacccttt 180  
gtactacaca acaccgatga cccaccagct ctgtgtcttg ctggtgtctg gatcannnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntgtgatca tggtcacccc 420  
atttgtctgc atcctcatct cttacatcta catcaccaat gcagtcctca gagtctcatc 480  
ctttagggga ggatggaaag ccttctccac ctgtggctca cacctggctg tggctctgct 540  
cttctatggc accatcattg ctgtgtattt caatcctgta tcttcccatt catctgagaa 600  
ggacactgca gcaactgtgc tatacacagt ggtgactccc atgttg 646

<210> 26  
<211> 215  
<212> PRT  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<223> x = any

<220>  
<221> misc\_feature  
<223> Clone: J14

<400> 26

Val Cys Phe Ser Ser Thr Thr Val Pro Lys Val Leu Ala Asn His Ile  
 1 5 10 15  
 Leu Ser Ser Gln Ala Ile Ser Phe Ser Gly Cys Leu Thr Gln Leu Tyr  
 20 25 30  
 Phe Leu Cys Val Ser Val Asn Met Asp Asn Phe Leu Leu Ala Val Met  
 35 40 45  
 Ala Tyr Asp Arg Phe Val Ala Ile Cys His Pro Leu Tyr Tyr Thr Thr  
 50 55 60  
 Pro Met Thr His Gln Leu Cys Val Leu Leu Val Ser Gly Ser Xaa Xaa  
 65 70 75 80  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 85 90 95  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 100 105 110  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 115 120 125  
 Xaa Xaa Xaa Xaa Xaa Xaa Val Ile Met Val Thr Pro Phe Val Cys Ile  
 130 135 140  
 Leu Ile Ser Tyr Ile Tyr Ile Thr Asn Ala Val Leu Arg Val Ser Ser  
 145 150 155 160  
 Phe Arg Gly Gly Trp Lys Ala Phe Ser Thr Cys Gly Ser His Leu Ala  
 165 170 175  
 Val Val Cys Leu Phe Tyr Gly Thr Ile Ile Ala Val Tyr Phe Asn Pro  
 180 185 190  
 Val Ser Ser His Ser Ser Glu Lys Asp Thr Ala Ala Thr Val Leu Tyr  
 195 200 205  
 Thr Val Val Thr Pro Met Leu  
 210 215

<210> 27  
 <211> 481  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> x = any

<220>  
 <221> misc\_feature  
 <223> Clone: J15

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<400> 27
tatctgcaac cctctgcgct acccagtgt catgagcggc cgggtgtgcc tgetcatggt      60
cgtggcctcc tggttgggag gatccctcaa cgcctccatt cagacttctc tgacccttca    120
gttccccctac tgtggatcac ggaagatctc ccacttcttc tgtgaggtgc cctcgtgtgt    180
gannntggcc tgtgcagaca ctgaagccta tgagcaggta ctatttgtga caggcgtggt     240
ggctctctctg gtgcccatta cattcattac tgectcttat gccctcatcc tggctgctgt    300
gctccgaatg cactctgcgg aggggagtca gaaggcccta gccacatgct cctctcacct     360
gacagtcgtc aatctcttct atgggcccct tgtctacacc tacatgttac ctgcttctca    420
tcactcacca ggccaagacg acatagtatc cgtcttttac accgttctca cacccatgct    480
t                                                                           481

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<210> 28
<211> 160
<212> PRT
<213> Rattus sp.

<220>
<221> misc_feature
<223> x = any

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<220>
<221> misc_feature
<223> Clone: J15

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<400> 28

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Ile Cys Asn Pro Leu Arg Tyr Pro Val Leu Met Ser Gly Arg Val Cys
1           5           10           15
Leu Leu Met Val Val Ala Ser Trp Leu Gly Gly Ser Leu Asn Ala Ser
20           25           30
Ile Gln Thr Ser Leu Thr Leu Gln Phe Pro Tyr Cys Gly Ser Arg Lys
35           40           45
Ile Ser His Phe Phe Cys Glu Val Pro Ser Leu Leu Xaa Xaa Ala Cys
50           55           60
Ala Asp Thr Glu Ala Tyr Glu Gln Val Leu Phe Val Thr Gly Val Val
65           70           75           80
Val Leu Leu Val Pro Ile Thr Phe Ile Thr Ala Ser Tyr Ala Leu Ile
85           90           95
Leu Ala Ala Val Leu Arg Met His Ser Ala Glu Gly Ser Gln Lys Ala
100          105          110

```

Leu Ala Thr Cys Ser Ser His Leu Thr Val Val Asn Leu Phe Tyr Gly  
 115 120 125

Pro Leu Val Tyr Thr Tyr Met Leu Pro Ala Ser Tyr His Ser Pro Gly  
 130 135 140

Gln Asp Asp Ile Val Ser Val Phe Tyr Thr Val Leu Thr Pro Met Leu  
 145 150 155 160

<210> 29  
 <211> 481  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> Clone: J16

<400> 29  
 catctgtagg cctcttcact atcctaccct catgaccag acactgtgtg ccaagattgc 60  
 cactgggttg tgggtgggag gcttggtg gccagtggta gaaatttcct tgggtgtctcg 120  
 tctccttttt tgtggcccca atcacattca acacatcttt tgtgatttcc cacctgtgct 180  
 gagcttggt tgtactgata catcagtga tgccttggt gattttatta taaacctctg 240  
 caagatcctg gccaccttcc tgctgacct gagctcctac ttgcagataa tccgcacagt 300  
 gctcaagatt ccttcagctg caggcaagaa gaaagcattc tcgacttggt cctcccatct 360  
 cactgtgggt ctcattctct atgggagcat ccttttcatt tatgtgcggc tgaagaagac 420  
 ttactcctt gactacgaca gagccttggc agtagtctac tccgtgggtta cccctttcct 480  
 g 481

<210> 30  
 <211> 160  
 <212> PRT  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> Clone: J16

<400> 30

Ile Cys Arg Pro Leu His Tyr Pro Thr Leu Met Thr Gln Thr Leu Cys  
 1 5 10 15

Ala Lys Ile Ala Thr Gly Cys Trp Leu Gly Gly Leu Ala Gly Pro Val  
 20 25 30

Val Glu Ile Ser Leu Val Ser Arg Leu Leu Phe Cys Gly Pro Asn His  
           35                          40                          45  
 Ile Gln His Ile Phe Cys Asp Phe Pro Pro Val Leu Ser Leu Ala Cys  
           50                          55                          60  
 Thr Asp Thr Ser Val Asn Val Leu Val Asp Phe Ile Ile Asn Leu Cys  
   65                          70                          75                          80  
 Lys Ile Leu Ala Thr Phe Leu Leu Ile Leu Ser Ser Tyr Leu Gln Ile  
                           85                          90                          95  
 Ile Arg Thr Val Leu Lys Ile Pro Ser Ala Ala Gly Lys Lys Lys Ala  
                           100                          105                          110  
 Phe Ser Thr Cys Ala Ser His Leu Thr Val Val Leu Ile Phe Tyr Gly  
           115                          120                          125  
 Ser Ile Leu Phe Met Tyr Val Arg Leu Lys Lys Thr Tyr Ser Leu Asp  
           130                          135                          140  
 Tyr Asp Arg Ala Leu Ala Val Val Tyr Ser Val Val Thr Pro Phe Leu  
   145                          150                          155                          160

<210> 31  
 <211> 481  
 <212> DNA  
 <213> Rattus sp.

<220>  
 <221> misc\_feature  
 <223> n = any

<220>  
 <221> misc\_feature  
 <223> Clone: J17

<400> 31  
 aatctgcaac ccactgcttt attccaccaa aatgtccaca caagtctgta tccagttggt 60  
 tgcaggatct tatatagggg gttttcttaa tacttgcctc atcatgtttt actttttctc 120  
 ttttctcttc tgtgggccaa atatagttga tcattttttc tgtgattttg ctcttttnt 180  
 ggaactttcg tgctctgatg tgagtgtctc tgtagttggt atgtcatttt ctgctggctc 240  
 agttactatg atcacagtgt ttatcatagc catctcctat tcttacatcc tcatcaccat 300  
 cctgaagatg tcttcaactg agggccgtca caaggctttc tccacatgta cctcccacct 360  
 cactgcagtc actctctact atggcaccat taccttcatt tatgtgatgc ccaagtccac 420  
 atactctaca gaccagaaca aggtgggtgtc tgtgttttac atgggtgggtga tcccaatggt 480



<210> 32  
<211> 160  
<212> PRT  
<213> Rattus sp.  
  
<220>  
<221> misc\_feature  
<223> x = any

<220>  
<221> misc\_feature  
<223> Clone: J17

<400> 32

Ile Cys Asn Pro Leu Leu Tyr Ser Thr Lys Met Ser Thr Gln Val Cys  
1 5 10 15  
Ile Gln Leu Val Ala Gly Ser Tyr Ile Gly Gly Phe Leu Asn Thr Cys  
20 25 30  
Leu Ile Met Phe Tyr Phe Phe Ser Phe Leu Phe Cys Gly Pro Asn Ile  
35 40 45  
Val Asp His Phe Phe Cys Asp Phe Ala Pro Xaa Xaa Glu Leu Ser Cys  
50 55 60  
Ser Asp Val Ser Val Ser Val Val Val Met Ser Phe Ser Ala Gly Ser  
65 70 75 80  
Val Thr Met Ile Thr Val Phe Ile Ile Ala Ile Ser Tyr Ser Tyr Ile  
85 90 95  
Leu Ile Thr Ile Leu Lys Met Ser Ser Thr Glu Gly Arg His Lys Ala  
100 105 110  
Phe Ser Thr Cys Thr Ser His Leu Thr Ala Val Thr Leu Tyr Tyr Gly  
115 120 125  
Thr Ile Thr Phe Ile Tyr Val Met Pro Lys Ser Thr Tyr Ser Thr Asp  
130 135 140  
Gln Asn Lys Val Val Ser Val Phe Tyr Met Val Val Ile Pro Met Leu  
145 150 155 160

<210> 33  
<211> 479  
<212> DNA  
<213> Rattus sp.

<220>  
<221> misc\_feature

<223> Clone: J19

<400> 33

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tatctgccac cctctgaagt acacagttat catgaatcac tatttttgtg tgatgctgct      60
gctcttctct gtgttcgta gcattgcaca tgcgttggtc cacattttaa tgggtgttgat    120
actgactttc agcacaaaaa ctgaaatccc tcaacttttc tgtgagctgg ctcatatcat    180
caaacttacc tgttccgata attttatcaa ctatctgctg atatacacag agtctgtctt    240
attttttggg gttcatattg tagggatcat tttgtcttat atttacactg taccctcagt    300
tttaagaatg tcattattgg gaggaatgta taaagccttt tcaacatgtg gatctcattt    360
gtcggttgtc tctgttttat ggcacagggt ttgggggtaca cataagctct ccacttactg    420
actctccaag gaagactgta gtggcttcag tgatgtacac tgtggttact cagatgctg     479
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<210> 34

<211> 139

<212> PRT

<213> Rattus sp.

<220>

<221> misc\_feature

<223> Clone: J19

<400> 34

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Ile Cys His Pro Leu Lys Tyr Thr Val Ile Met Asn His Tyr Phe Cys
1              5              10              15
Val Met Leu Leu Leu Phe Ser Val Phe Val Ser Ile Ala His Ala Leu
20            25            30
Phe His Ile Leu Met Val Leu Ile Leu Thr Phe Ser Thr Lys Thr Glu
35            40            45
Ile Pro His Phe Phe Cys Glu Leu Ala His Ile Ile Lys Leu Thr Cys
50            55            60
Ser Asp Asn Phe Ile Asn Tyr Leu Leu Ile Tyr Thr Glu Ser Val Leu
65            70            75            80
Phe Phe Gly Val His Ile Val Gly Ile Ile Leu Ser Tyr Ile Tyr Thr
85            90            95
Val Ser Ser Val Leu Arg Met Ser Leu Leu Gly Gly Met Tyr Lys Ala
100           105           110
Phe Ser Thr Cys Gly Ser His Leu Ser Val Val Ser Val Leu Trp His
115          120          125
```

Arg Phe Trp Gly Thr His Lys Leu Ser Thr Tyr  
130 135

<210> 35  
<211> 481  
<212> DNA  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<223> n = any

<220>  
<221> misc\_feature  
<223> Clone: J20

<400> 35  
aatctgctac ccactgaggt accttctcat catgagctgg gtggtgtgca cagcactgtc 60  
cgtggcaatc tgggtcatag gcttttgtgc ctccgttata cctctctgct tcacgatoct 120  
cccactctgt ggtccttacg tcgttgatta tcttttctgc gagctgccca tccttctgca 180  
cctgttctgc acagatacat ctctgctgga gnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240  
nnnnnnnnnn nnncccttcc tcctgattgt tctctcctac cttegcaccc tgggtggtgt 300  
gataagaata gactcagctg agggcagaaa aaaggccttt tcaacttgtg cttcacactt 360  
ggctgtggtg accatctact atggaacagg gctgatcagg tacttgaggc ccaagtcctt 420  
ttattccgct gagggagaca gactgatctc tgtgttctat gcagtcattg gccctgcact 480  
g 481

<210> 36  
<211> 160  
<212> PRT  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<223> x = any

<220>  
<221> misc\_feature  
<223> Clone: J20

<400> 36

Ile Cys Tyr Pro Leu Arg Tyr Leu Leu Ile Met Ser Trp Val Val Cys  
1 5 10 15



<211> 32  
<212> DNA  
<213> artificial - primer

<220>  
<221> misc\_feature  
<223> n = any

<400> 39  
aatttnttta tnatntcnct ngcntgngcn ga

32

<210> 40  
<211> 32  
<212> DNA  
<213> artificial - primer

<220>  
<221> misc\_feature  
<223> n = any

<400> 40  
cgnttnctna tgtgtaacct ntgctttgcn ga

32

<210> 41  
<211> 32  
<212> DNA  
<213> artificial - primer

<220>  
<221> misc\_feature  
<223> n = any

<400> 41  
acngtntata tnacncatct nacnatngcn ga

32

<210> 42  
<211> 33  
<212> DNA  
<213> artificial - primer

<220>  
<221> misc\_feature  
<223> n = any

<400> 42  
ctgncggttc atnaanacat anatnatngg gtt

33

<210> 43  
<211> 31

<212> DNA  
 <213> artificial - primer  
  
 <220>  
 <221> misc\_feature  
 <223> n = any  
  
 <400> 43  
 gatcggttnag acaacaatan atnatngggg t 31  
  
 <210> 44  
 <211> 32  
 <212> DNA  
 <213> artificial - primer  
  
 <220>  
 <221> misc\_feature  
 <223> n = any  
  
 <400> 44  
 tcnatgttaa angtngtata natnatnggg tt 32  
  
 <210> 45  
 <211> 32  
 <212> DNA  
 <213> artificial - primer  
  
 <220>  
 <221> misc\_feature  
 <223> n = any  
  
 <400> 45  
 gccttngtaa anantgcata naggaanggg tt 32  
  
 <210> 46  
 <211> 32  
 <212> DNA  
 <213> artificial - primer  
  
 <220>  
 <221> misc\_feature  
 <223> n = any  
  
 <400> 46  
 aaatcngggc tncgncaata natcannggg tt 32  
  
 <210> 47  
 <211> 32  
 <212> DNA

<213> artificial - primer

<220>

<221> misc\_feature

<223> n = any

<400> 47

gangancna caaaaaaata nataaanggg tt

32

<210> 48

<211> 23

<212> DNA

<213> artificial - primer

<220>

<221> misc\_feature

<223> n = any

<400> 48

atggcntatg atcgntatgt ngc

23

<210> 49

<211> 29

<212> DNA

<213> artificial - primer

<220>

<221> misc\_feature

<223> n = any

<400> 49

aanagngana cnatnganag atgngancc

29

<210> 50

<211> 6

<212> PRT

<213> artificial - motif

<400> 50

Lys Ile Val Ser Ser Ile

1 5

<210> 51

<211> 6

<212> PRT

<213> artificial - motif

<400> 51

Arg Ile Val Ser Ser Ile

1 5  
<210> 52  
<211> 6  
<212> PRT  
<213> artificial - motif

<400> 52

His Ile Thr Cys Ala Val  
1 5

<210> 53  
<211> 6  
<212> PRT  
<213> artificial - motif

<400> 53

His Ile Thr Trp Ala Val  
1 5

<210> 54  
<211> 19  
<212> PRT  
<213> Rattus sp.

<400> 54

Leu Ser Lys Glu Asp Cys Ser Gly Phe Ser Asp Val His Cys Gly Tyr  
1 5 10 15

Ser Asp Ala

<210> 55  
<211> 9  
<212> PRT  
<213> Artificial - motif

<220>  
<221> misc\_feature  
<223> x = any

<400> 55

Leu Xaa Xaa Pro Met Tyr Xaa Phe Leu  
1 5

<210> 56  
<211> 9  
<212> PRT  
<213> Artificial - motif

<220>  
<221> x



<222> (2)..(2)  
<223> H or Q

<220>  
<221> x  
<222> (3)..(3)  
<223> K or M or T

<220>  
<221> x  
<222> (7)..(7)  
<223> F or L

<400> 56

Leu Xaa Xaa Pro Met Tyr Xaa Phe Leu  
1 5

<210> 57  
<211> 10  
<212> PRT  
<213> Artificial - motif

<220>  
<221> misc\_feature  
<223> x = any

<400> 57

Met Xaa Tyr Asp Arg Xaa Xaa Ala Ile Cys  
1 5 10

<210> 58  
<211> 10  
<212> PRT  
<213> Artificial - motif

<220>  
<221> X  
<222> (2)..(2)  
<223> A or S

<220>  
<221> X  
<222> (6)..(6)  
<223> F or Y

<220>  
<221> X  
<222> (7)..(7)  
<223> L or V

<400> 58

Met Xaa Tyr Asp Arg Xaa Xaa Ala Ile Cys  
1 5 10

<210> 59

<211> 7

<212> PRT

<213> Artificial - motif

<220>

<221> misc\_feature

<223> x = any

<400> 59

Asp Arg Xaa Xaa Ala Ile Cys  
1 5

<210> 60

<211> 7

<212> PRT

<213> Artificial - motif

<220>

<221> X

<222> (3)..(3)

<223> F or Y

<220>

<221> X

<222> (4)..(4)

<223> L or V

<400> 60

Asp Arg Xaa Xaa Ala Ile Cys  
1 5

<210> 61

<211> 9

<212> PRT

<213> Artificial - motif

<220>

<221> misc\_feature

<222> (2)..(2)

<223> x = any

<220>

<221> misc\_feature

<222> (7)..(7)  
<223> x = any

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> K or R

<400> 61

Xaa Xaa Phe Ser Thr Cys Xaa Ser His  
1 5

<210> 62  
<211> 9  
<212> PRT  
<213> Artificial - motif

<220>  
<221> X  
<222> (1)..(1)  
<223> K or R

<220>  
<221> X  
<222> (2)..(2)  
<223> A or I or S or V

<220>  
<221> X  
<222> (7)..(7)  
<223> A or G or S

<400> 62

Xaa Xaa Phe Ser Thr Cys Xaa Ser His  
1 5

<210> 63  
<211> 7  
<212> PRT  
<213> Artificial - motif

<220>  
<221> misc\_feature  
<223> x = any

<400> 63

Phe Ser Thr Cys Xaa Ser His  
1 5

<210> 64  
<211> 7  
<212> PRT  
<213> Artificial - motif

<220>  
<221> X  
<222> (5)..(5)  
<223> A or G or S

<400> 64

Phe Ser Thr Cys Xaa Ser His  
1 5

<210> 65  
<211> 12  
<212> PRT  
<213> Artificial - motif

<220>  
<221> misc\_feature  
<223> x = any

<400> 65

Pro Xaa Xaa Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn  
1 5 10

<210> 66  
<211> 12  
<212> PRT  
<213> Artificial - motif

<220>  
<221> X  
<222> (2)..(2)  
<223> M or L or V

<220>  
<221> X  
<222> (3)..(3)  
<223> F or L or V

<220>  
<221> X  
<222> (6)..(6)  
<223> F OR I

<220>  
<221> X

<222> (9)..(9)  
<223> C or S or T

<400> 66

Pro Xaa Xaa Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn  
1 5 10

<210> 67  
<211> 8  
<212> PRT  
<213> Artificial - motif

<220>  
<221> misc\_feature  
<223> x = any

<400> 67

Pro Xaa Xaa Asn Pro Xaa Ile Tyr  
1 5

<210> 68  
<211> 8  
<212> PRT  
<213> Artificial - motif

<220>  
<221> x  
<222> (2)..(2)  
<223> M or L or V

<220>  
<221> x  
<222> (3)..(3)  
<223> F or L or V

<220>  
<221> x  
<222> (6)..(6)  
<223> F or I

<400> 68

Pro Xaa Xaa Asn Pro Xaa Ile Tyr  
1 5

<210> 69  
<211> 9  
<212> PRT  
<213> Artificial - motif

<220>  
<221> misc\_feature  
<223> x = any

<400> 69

Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn  
1 5

<210> 70  
<211> 9  
<212> PRT  
<213> Artificial - motif

<220>  
<221> X  
<222> (3)..(3)  
<223> F or I

<220>  
<221> X  
<222> (6)..(6)  
<223> C or S or T

<400> 70

Asn Pro Xaa Ile Tyr Xaa Leu Arg Asn  
1 5

<210> 71  
<211> 333  
<212> PRT  
<213> Rattus sp.

<220>  
<221> misc\_feature  
<223> Clone: F3

<400> 71

Met Asp Ser Ser Asn Arg Thr Arg Val Ser Glu Phe Leu Leu Leu Gly  
1 5 10 15  
Phe Val Glu Asn Lys Asp Leu Gln Pro Leu Ile Tyr Gly Leu Phe Leu  
20 25 30  
Ser Met Tyr Leu Val Thr Val Ile Gly Asn Ile Ser Ile Ile Val Ala  
35 40 45  
Ile Ile Ser Asp Pro Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ser  
50 55 60  
Asn Leu Ser Phe Val Asp Ile Cys Phe Ile Ser Thr Thr Val Pro Lys

65	70	75	80
Met Leu Val Asn Ile Gln Thr Gln Asn Asn Val Ile Thr Tyr Ala Gly	85	90	95
Cys Ile Thr Gln Ile Tyr Phe Phe Leu Leu Phe Val Glu Leu Asp Asn	100	105	110
Phe Leu Leu Thr Ile Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His	115	120	125
Pro Met His Tyr Thr Val Ile Met Asn Tyr Lys Leu Cys Gly Phe Leu	130	135	140
Val Leu Val Ser Trp Ile Val Ser Val Leu His Ala Leu Phe Gln Ser	145	150	155
Leu Met Met Leu Ala Leu Pro Phe Cys Thr His Leu Glu Ile Pro His	165	170	175
Tyr Phe Cys Glu Pro Asn Gln Val Ile Gln Leu Thr Cys Ser Asp Ala	180	185	190
Phe Leu Asn Asp Leu Val Ile Tyr Phe Thr Leu Val Leu Leu Ala Thr	195	200	205
Val Pro Leu Ala Gly Ile Phe Tyr Ser Tyr Phe Lys Ile Val Ser Ser	210	215	220
Ile Cys Ala Ile Ser Ser Val His Gly Lys Tyr Lys Ala Phe Ser Thr	225	230	235
Cys Ala Ser His Leu Ser Val Val Ser Leu Phe Tyr Cys Thr Gly Leu	245	250	255
Gly Val Tyr Leu Ser Ser Ala Ala Asn Asn Ser Ser Gln Ala Ser Ala	260	265	270
Thr Ala Ser Val Met Tyr Thr Val Val Thr Pro Met Val Asn Pro Phe	275	280	285
Ile Tyr Ser Leu Arg Asn Lys Asp Val Lys Ser Val Leu Lys Lys Thr	290	295	300
Leu Cys Glu Glu Val Ile Arg Ser Pro Pro Ser Leu Leu His Phe Phe	305	310	315
Leu Val Leu Cys His Leu Pro Cys Phe Ile Phe Cys Tyr	325	330	

<210> 72  
 <211> 313  
 <212> PRT  
 <213> Rattus sp.  
  
 <220>  
 <221> misc\_feature

<223> Clone: F5

<400> 72

Met	Ser	Ser	Thr	Asn	Gln	Ser	Ser	Val	Thr	Glu	Phe	Leu	Leu	Leu	Gly
1				5					10					15	
Leu	Ser	Arg	Gln	Pro	Gln	Gln	Gln	Gln	Leu	Leu	Phe	Leu	Leu	Phe	Leu
			20					25					30		
Ile	Met	Tyr	Leu	Ala	Thr	Val	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Leu	Ala
		35					40					45			
Ile	Gly	Thr	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr	Phe	Phe	Leu	Ser
	50					55					60				
Asn	Leu	Ser	Phe	Val	Asp	Val	Cys	Phe	Ser	Ser	Thr	Thr	Val	Pro	Lys
65					70					75					80
Val	Leu	Ala	Asn	His	Ile	Leu	Gly	Ser	Gln	Ala	Ile	Ser	Phe	Ser	Gly
				85					90					95	
Cys	Leu	Thr	Gln	Leu	Tyr	Phe	Leu	Ala	Val	Phe	Gly	Asn	Met	Asp	Asn
			100					105					110		
Phe	Leu	Leu	Ala	Val	Met	Ser	Tyr	Asp	Arg	Phe	Val	Ala	Ile	Cys	His
			115				120					125			
Pro	Leu	His	Tyr	Thr	Thr	Lys	Met	Thr	Arg	Gln	Leu	Cys	Val	Leu	Leu
	130					135					140				
Val	Val	Gly	Ser	Trp	Val	Val	Ala	Asn	Met	Asn	Cys	Leu	Leu	His	Ile
145					150					155					160
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Ala	Asp	Asn	Met	Ile	Pro	His
				165					170					175	
Phe	Phe	Cys	Asp	Gly	Thr	Pro	Leu	Leu	Lys	Leu	Ser	Cys	Ser	Asp	Thr
			180					185					190		
His	Leu	Asn	Glu	Leu	Met	Ile	Leu	Thr	Glu	Gly	Ala	Val	Val	Met	Val
		195					200					205			
Thr	Pro	Phe	Val	Cys	Ile	Leu	Ile	Ser	Tyr	Ile	His	Ile	Thr	Cys	Ala
	210					215					220				
Val	Leu	Arg	Val	Ser	Ser	Pro	Arg	Gly	Gly	Trp	Lys	Ser	Phe	Ser	Thr
225					230					235					240
Cys	Gly	Ser	His	Leu	Ala	Val	Val	Cys	Leu	Phe	Tyr	Gly	Thr	Val	Ile
				245					250					255	
Ala	Val	Tyr	Phe	Asn	Pro	Ser	Ser	Ser	His	Leu	Ala	Gly	Arg	Asp	Met
			260					265					270		
Ala	Ala	Ala	Val	Met	Tyr	Ala	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe



275

280

285

Ile Tyr Ser Leu Arg Asn Ser Asp Met Lys Ala Ala Leu Arg Lys Val  
 290 295 300

Leu Ala Met Arg Phe Pro Ser Lys Gln  
 305 310

<210> 73

<211> 311

<212> PRT

<213> Rattus sp

<220>

<221> misc\_feature

<223> Clone: F6

<400> 73

Met Ala Trp Ser Thr Gly Gln Asn Leu Ser Thr Pro Gly Pro Phe Ile  
 1 5 10 15

Leu Leu Gly Phe Pro Gly Pro Arg Ser Met Arg Ile Gly Leu Phe Leu  
 20 25 30

Leu Phe Leu Val Met Tyr Leu Leu Thr Val Val Gly Asn Leu Ala Ile  
 35 40 45

Ile Ser Leu Val Gly Ala His Arg Cys Leu Gln Thr Pro Met Tyr Phe  
 50 55 60

Phe Leu Cys Asn Leu Ser Phe Leu Glu Ile Trp Phe Thr Thr Ala Cys  
 65 70 75 80

Val Pro Lys Thr Leu Ala Thr Phe Ala Pro Arg Gly Gly Val Ile Ser  
 85 90 95

Leu Ala Gly Cys Ala Thr Gln Met Tyr Phe Val Phe Ser Leu Gly Cys  
 100 105 110

Thr Glu Tyr Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Leu Ala  
 115 120 125

Ile Cys Leu Pro Leu Arg Tyr Gly Gly Ile Met Thr Pro Gly Leu Ala  
 130 135 140

Met Arg Leu Ala Leu Gly Ser Trp Leu Cys Gly Phe Ser Ala Ile Thr  
 145 150 155 160

Val Pro Ala Thr Leu Ile Ala Arg Leu Ser Phe Cys Gly Ser Arg Val  
 165 170 175

Ile Asn His Phe Phe Cys Asp Ile Ser Pro Trp Ile Val Leu Ser Cys  
 180 185 190

Thr Asp Thr Gln Val Val Glu Leu Val Ser Phe Gly Ile Ala Phe Cys

195	200	205
Val Ile Leu Gly Ser Cys Gly Ile Thr Leu Val Ser Tyr Ala Tyr Ile 210 215 220		
Ile Thr Thr Ile Ile Lys Ile Pro Ser Ala Arg Gly Arg His Arg Ala 225 230 235 240		
Phe Ser Thr Cys Ser Ser His Leu Thr Val Val Leu Ile Trp Tyr Gly 245 250 255		
Ser Thr Ile Phe Leu His Val Arg Thr Ser Val Glu Ser Ser Leu Asp 260 265 270		
Leu Thr Lys Ala Ile Thr Val Leu Asn Thr Ile Val Thr Pro Val Leu 275 280 285		
Asn Pro Phe Ile Tyr Thr Leu Arg Asn Lys Asp Val Lys Glu Ala Leu 290 295 300		
Arg Arg Thr Val Lys Gly Lys 305 310		

<210> 74  
 <211> 317  
 <212> PRT  
 <213> Rattus sp

<220>  
 <221> misc\_feature  
 <223> Clone: F12

<400> 74

Met Glu Ser Gly Asn Ser Thr Arg Arg Phe Ser Ser Phe Phe Leu Leu 1 5 10 15
Gly Phe Thr Glu Asn Pro Gln Leu His Phe Leu Ile Phe Ala Leu Phe 20 25 30
Leu Ser Met Tyr Leu Val Thr Val Leu Gly Asn Leu Leu Ile Ile Met 35 40 45
Ala Ile Ile Thr Gln Ser His Leu His Thr Pro Met Tyr Phe Phe Leu 50 55 60
Ala Asn Leu Ser Phe Val Asp Ile Cys Phe Thr Ser Thr Thr Ile Pro 65 70 75 80
Lys Met Leu Val Asn Ile Tyr Thr Gln Ser Lys Ser Ile Thr Tyr Glu 85 90 95
Asp Cys Ile Ser Gln Met Cys Val Phe Leu Val Phe Ala Glu Leu Gly 100 105 110
Asn Phe Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Asn Cys

115					120					125						
His	Pro	Leu	Cys	Tyr	Thr	Val	Ile	Val	Asn	His	Arg	Leu	Cys	Ile	Leu	
130					135					140						
Leu	Leu	Leu	Leu	Ser	Trp	Val	Ile	Ser	Ile	Phe	His	Ala	Phe	Ile	Gln	
145					150					155					160	
Ser	Leu	Ile	Val	Leu	Gln	Leu	Thr	Phe	Cys	Gly	Asp	Val	Lys	Ile	Pro	
165					170					175						
His	Phe	Phe	Cys	Glu	Leu	Asn	Gln	Leu	Ser	Gln	Leu	Thr	Cys	Ser	Asp	
180					185					190						
Asn	Phe	Pro	Ser	His	Leu	Ile	Met	Asn	Leu	Val	Pro	Val	Met	Leu	Ala	
195					200					205						
Ala	Ile	Ser	Phe	Ser	Gly	Ile	Leu	Tyr	Ser	Tyr	Phe	Lys	Ile	Val	Ser	
210					215					220						
Ser	Ile	His	Ser	Ile	Ser	Thr	Val	Gln	Gly	Lys	Tyr	Lys	Ala	Phe	Ser	
225					230					235					240	
Thr	Cys	Ala	Ser	His	Leu	Ser	Ile	Val	Ser	Leu	Phe	Tyr	Ser	Thr	Gly	
245					250					255						
Leu	Gly	Val	Tyr	Val	Ser	Ser	Ala	Val	Val	Gln	Ser	Ser	His	Ser	Ala	
260					265					270						
Ala	Ser	Ala	Ser	Val	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	
275					280					285						
Phe	Ile	Tyr	Ser	Leu	Arg	Asn	Lys	Asp	Val	Lys	Arg	Ala	Leu	Glu	Arg	
290					295					300						
Leu	Leu	Glu	Gly	Asn	Cys	Lys	Val	His	His	Trp	Thr	Gly				
305					310					315						

<210> 75  
 <211> 310  
 <212> PRT  
 <213> Rattus sp

<220>  
 <221> misc\_feature  
 <223> Clone: I3

<400> 75

Met	Asn	Asn	Gln	Thr	Phe	Ile	Thr	Gln	Phe	Leu	Leu	Leu	Gly	Leu	Pro
1				5					10					15	
Ile	Pro	Glu	Glu	His	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu	Val	Met
		20						25					30		
Tyr	Leu	Thr	Thr	Ile	Leu	Gly	Asn	Leu	Leu	Ile	Ile	Val	Leu	Val	Gln

35					40					45					
Leu	Asp	Ser	Gln	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser	Asn	Leu
50						55				60					
Ser	Phe	Ser	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys	Leu	Leu
65				70						75					80
Gln	Asn	Met	Arg	Ser	Gln	Asp	Thr	Ser	Ile	Pro	Tyr	Gly	Gly	Cys	Leu
				85					90					95	
Ala	Gln	Thr	Tyr	Phe	Phe	Met	Val	Phe	Gly	Asp	Met	Glu	Ser	Phe	Leu
			100					105					110		
Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe	Pro	Leu
	115						120					125			
His	Tyr	Thr	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Thr	Cys	Leu	Val	Leu
	130					135					140				
Leu	Leu	Trp	Met	Leu	Thr	Thr	Ser	His	Ala	Met	Met	His	Thr	Leu	Leu
145				150						155					160
Ala	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asn	Asn	Val	Val	Leu	Asn	Phe	Phe
				165				170						175	
Cys	Asp	Leu	Phe	Val	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr	Ile
		180						185					190		
Asn	Glu	Leu	Met	Ile	Phe	Ile	Met	Ser	Thr	Leu	Leu	Ile	Ile	Ile	Pro
	195						200					205			
Phe	Phe	Leu	Ile	Val	Met	Ser	Tyr	Ala	Arg	Ile	Ile	Ser	Ser	Ile	Leu
	210					215					220				
Lys	Val	Pro	Ser	Thr	Gln	Gly	Ile	Cys	Lys	Val	Phe	Ser	Thr	Cys	Gly
225				230						235					240
Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Leu
			245					250						255	
Tyr	Leu	Cys	Pro	Ala	Gly	Asn	Asn	Ser	Thr	Val	Lys	Glu	Met	Val	Met
			260					265					270		
Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr
	275						280					285			
Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Arg	Ala	Leu	Ile	Arg	Val	Ile	Cys
	290					295					300				
Ser	Met	Lys	Ile	Thr	Leu										
305					310										

<210> 76  
 <211> 327  
 <212> PRT  
 <213> Rattus sp

<220>  
<221> misc\_feature  
<223> Clone: I7

<400> 76

Met	Glu	Arg	Arg	Asn	His	Ser	Gly	Arg	Val	Ser	Glu	Phe	Val	Leu	Leu	
1				5					10					15		
Gly	Phe	Pro	Ala	Pro	Ala	Pro	Leu	Arg	Val	Leu	Leu	Phe	Phe	Leu	Ser	
			20					25					30			
Leu	Leu	Asp	Tyr	Val	Leu	Val	Leu	Thr	Glu	Asn	Met	Leu	Ile	Ile	Ile	
		35					40					45				
Ala	Ile	Arg	Asn	His	Pro	Thr	Leu	His	Lys	Pro	Met	Tyr	Phe	Phe	Leu	
	50					55					60					
Ala	Asn	Met	Ser	Phe	Leu	Glu	Ile	Trp	Tyr	Val	Thr	Val	Thr	Ile	Pro	
65					70					75					80	
Lys	Met	Leu	Ala	Gly	Phe	Ile	Gly	Ser	Lys	Glu	Asn	His	Gly	Gln	Leu	
				85					90					95		
Ile	Ser	Phe	Glu	Ala	Cys	Met	Thr	Gln	Leu	Tyr	Phe	Phe	Leu	Gly	Leu	
			100					105					110			
Gly	Cys	Thr	Glu	Cys	Val	Leu	Leu	Ala	Val	Met	Ala	Tyr	Asp	Arg	Tyr	
		115					120						125			
Val	Ala	Ile	Cys	His	Pro	Leu	His	Tyr	Pro	Val	Ile	Val	Ser	Ser	Arg	
	130					135					140					
Leu	Cys	Val	Gln	Met	Ala	Ala	Gly	Ser	Trp	Ala	Gly	Gly	Phe	Gly	Ile	
145					150					155					160	
Ser	Met	Val	Lys	Val	Phe	Leu	Ile	Ser	Arg	Leu	Ser	Tyr	Cys	Gly	Pro	
				165					170					175		
Asn	Thr	Ile	Asn	His	Phe	Phe	Cys	Asp	Val	Ser	Pro	Leu	Leu	Asn	Leu	
			180					185					190			
Ser	Cys	Thr	Asp	Met	Ser	Thr	Ala	Glu	Leu	Thr	Asp	Phe	Val	Leu	Ala	
		195					200					205				
Ile	Phe	Ile	Leu	Leu	Gly	Pro	Leu	Ser	Val	Thr	Gly	Ala	Ser	Tyr	Met	
	210					215					220					
Ala	Ile	Thr	Gly	Ala	Val	Met	Arg	Ile	Pro	Ser	Ala	Ala	Gly	Arg	His	
225					230					235					240	
Lys	Ala	Phe	Ser	Thr	Cys	Ala	Ser	His	Leu	Thr	Val	Val	Ile	Ile	Phe	
				245					250					255		
Tyr	Ala	Ala	Ser	Ile	Phe	Ile	Tyr	Ala	Arg	Pro	Lys	Ala	Leu	Ser	Ala	

260                      265                      270  
 Phe Asp Thr Asn Lys Leu Val Ser Val Leu Tyr Ala Val Ile Val Pro  
       275                      280                      285  
 Leu Phe Asn Pro Ile Ile Tyr Cys Leu Arg Asn Gln Asp Val Lys Arg  
       290                      295                      300  
 Ala Leu Arg Arg Thr Leu His Leu Ala Gln Asp Gln Glu Ala Asn Thr  
       305                      310                      315                      320  
 Asn Lys Gly Ser Lys Ile Gly  
                               325

<210> 77  
 <211> 312  
 <212> PRT  
 <213> Rattus sp

<220>  
 <221> misc\_feature  
 <223> Clone: I8

<400> 77

Met Asn Asn Lys Thr Val Ile Thr His Phe Leu Leu Leu Gly Leu Pro  
 1                      5                      10                      15  
 Ile Pro Pro Glu His Gln Gln Leu Phe Phe Ala Leu Phe Leu Ile Met  
                               20                      25                      30  
 Tyr Leu Thr Thr Phe Leu Gly Asn Leu Leu Ile Val Val Leu Val Gln  
       35                      40                      45  
 Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser Asn Leu  
       50                      55                      60  
 Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Leu Lys Leu Leu  
       65                      70                      75                      80  
 Gln Asn Ile Gln Ser Gln Val Pro Ser Ile Ser Tyr Ala Gly Cys Leu  
                               85                      90                      95  
 Thr Gln Ile Phe Phe Phe Leu Leu Phe Gly Tyr Leu Gly Asn Phe Leu  
                               100                      105                      110  
 Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe Pro Leu  
                               115                      120                      125  
 His Tyr Thr Asn Ile Met Ser His Lys Leu Cys Thr Cys Leu Leu Leu  
       130                      135                      140  
 Val Phe Trp Ile Met Thr Ser Ser His Ala Met Met His Thr Leu Leu  
       145                      150                      155                      160  
 Ala Ala Arg Leu Ser Phe Cys Glu Asn Asn Val Leu Leu Asn Phe Phe

165										170					175				
Cys	Asp	Leu	Phe	Val	Leu	Leu	Lys	Leu	Ala	Cys	Ser	Asp	Thr	Tyr	Val				
			180					185						190					
Asn	Glu	Leu	Met	Ile	His	Ile	Met	Gly	Val	Ile	Ile	Ile	Val	Ile	Pro				
		195					200					205							
Phe	Val	Leu	Ile	Val	Ile	Ser	Tyr	Ala	Lys	Ile	Ile	Ser	Ser	Ile	Leu				
		210				215						220							
Lys	Val	Pro	Ser	Thr	Gln	Ser	Ile	His	Lys	Val	Phe	Ser	Thr	Cys	Gly				
225					230					235					240				
Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Ile	Ile	Gly	Leu				
				245					250					255					
Tyr	Leu	Cys	Pro	Ser	Gly	Asp	Asn	Phe	Ser	Leu	Lys	Gly	Ser	Ala	Met				
			260					265					270						
Ala	Met	Met	Tyr	Thr	Val	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe	Ile	Tyr				
		275					280					285							
Ser	Leu	Arg	Asn	Arg	Asp	Met	Lys	Gln	Ala	Leu	Ile	Arg	Val	Thr	Cys				
		290				295					300								
Ser	Lys	Lys	Ile	Ser	Leu	Pro	Trp												
305					310														

<210> 78  
 <211> 314  
 <212> PRT  
 <213> Rattus sp

<220>  
 <221> misc\_feature  
 <223> Clone: I9

<400> 78

Met	Thr	Arg	Arg	Asn	Gln	Thr	Ala	Ile	Ser	Gln	Phe	Phe	Leu	Leu	Gly				
1				5					10					15					
Leu	Pro	Phe	Pro	Pro	Glu	Tyr	Gln	His	Leu	Phe	Tyr	Ala	Leu	Phe	Leu				
			20					25					30						
Ala	Met	Tyr	Leu	Thr	Thr	Leu	Leu	Gly	Asn	Leu	Ile	Ile	Ile	Ile	Leu				
		35					40					45							
Ile	Leu	Leu	Asp	Ser	His	Leu	His	Thr	Pro	Met	Tyr	Leu	Phe	Leu	Ser				
		50				55					60								
Asn	Leu	Ser	Phe	Ala	Asp	Leu	Cys	Phe	Ser	Ser	Val	Thr	Met	Pro	Lys				
65					70					75					80				
Leu	Leu	Gln	Asn	Met	Gln	Ser	Gln	Val	Pro	Ser	Ile	Pro	Tyr	Ala	Gly				

85					90					95					
Cys	Leu	Ala	Gln	Ile	Tyr	Phe	Phe	Leu	Phe	Phe	Gly	Asp	Leu	Gly	Asn
			100					105					110		
Phe	Leu	Leu	Val	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala	Ile	Cys	Phe
			115					120					125		
Pro	Leu	His	Tyr	Met	Ser	Ile	Met	Ser	Pro	Lys	Leu	Cys	Val	Ser	Leu
			130					135					140		
Val	Val	Leu	Ser	Trp	Val	Leu	Thr	Thr	Phe	His	Ala	Met	Leu	His	Thr
			145					150					155		
Leu	Leu	Met	Ala	Arg	Leu	Ser	Phe	Cys	Glu	Asp	Ser	Val	Ile	Pro	His
				165					170					175	
Tyr	Phe	Cys	Asp	Met	Ser	Thr	Leu	Leu	Lys	Val	Ala	Cys	Ser	Asp	Thr
			180					185					190		
His	Asp	Asn	Glu	Leu	Ala	Ile	Phe	Ile	Leu	Gly	Gly	Pro	Ile	Val	Val
			195					200					205		
Leu	Pro	Phe	Leu	Leu	Ile	Ile	Val	Ser	Tyr	Ala	Arg	Ile	Val	Ser	Ser
			210					215					220		
Ile	Phe	Lys	Val	Pro	Ser	Ser	Gln	Ser	Ile	His	Lys	Ala	Phe	Ser	Thr
				225				230					235		240
Cys	Gly	Ser	His	Leu	Ser	Val	Val	Ser	Leu	Phe	Tyr	Gly	Thr	Val	Ile
				245					250					255	
Gly	Leu	Tyr	Leu	Cys	Pro	Ser	Ala	Asn	Asn	Ser	Thr	Val	Lys	Glu	Thr
			260					265					270		
Val	Met	Ser	Leu	Met	Tyr	Thr	Met	Val	Thr	Pro	Met	Leu	Asn	Pro	Phe
			275					280					285		
Ile	Tyr	Ser	Leu	Arg	Asn	Arg	Asp	Ile	Lys	Asp	Ala	Leu	Glu	Lys	Ile
			290					295					300		
Met	Cys	Lys	Lys	Gln	Ile	Pro	Ser	Phe	Leu						
			305					310							

<210> 79  
 <211> 312  
 <212> PRT  
 <213> Rattus sp  
  
 <220>  
 <221> misc\_feature  
 <223> Clone: I14

<400> 79

Met Thr Gly Asn Asn Gln Thr Leu Ile Leu Glu Phe Leu Leu Leu Gly



1	5	10	15
Leu Pro Ile	Pro Ser Glu Tyr His	Leu Leu Phe Tyr Ala	Leu Phe Leu
	20	25	30
Ala Met Tyr	Leu Thr Ile Ile	Leu Gly Asn Leu Leu	Ile Ile Val Leu
	35	40	45
Val Arg Leu	Asp Ser His	Leu His Met Pro Met Tyr	Leu Phe Leu Ser
	50	55	60
Asn Leu Ser	Phe Ser Asp Leu Cys Phe	Ser Ser Val Thr Met Pro	Lys
65	70	75	80
Leu Leu Gln	Asn Met Gln Ser Gln Val	Pro Ser Ile Ser Tyr Thr	Gly
	85	90	95
Cys Leu Thr	Gln Leu Tyr Phe Phe	Met Val Phe Gly Asp Met	Glu Ser
	100	105	110
Phe Leu Leu	Val Val Met Ala Tyr Asp Arg Tyr	Val Ala Ile Cys Phe	
	115	120	125
Pro Leu Arg	Tyr Thr Thr Ile Met Ser Thr	Lys Phe Cys Ala Ser Leu	
	130	135	140
Val Leu Leu	Leu Trp Met Leu Thr Met Thr	His Ala Leu Leu His Thr	
145	150	155	160
Leu Leu Ile	Ala Arg Leu Ser Phe Cys	Glu Lys Asn Val Ile Leu His	
	165	170	175
Phe Phe Cys	Asp Ile Ser Ala Leu Leu	Lys Leu Ser Cys Ser Asp Ile	
	180	185	190
Tyr Val Asn	Glu Leu Met Ile Tyr Ile Leu	Gly Gly Leu Ile Ile Ile	
	195	200	205
Ile Pro Phe	Leu Leu Ile Val Met Ser Tyr Val	Arg Ile Phe Phe Ser	
	210	215	220
Ile Leu Lys	Phe Pro Ser Ile Gln Asp Ile Tyr	Lys Val Phe Ser Thr	
225	230	235	240
Cys Gly Ser	His Leu Ser Val Val Thr Leu	Phe Tyr Gly Thr Ile Phe	
	245	250	255
Gly Ile Tyr	Leu Cys Pro Ser Gly Asn Asn	Ser Thr Val Lys Glu Ile	
	260	265	270
Ala Met Ala	Met Met Tyr Thr Val Val Thr	Pro Met Leu Asn Pro Phe	
	275	280	285
Ile Tyr Ser	Leu Arg Asn Arg Asp Met Lys Arg	Ala Leu Ile Arg Val	
	290	295	300
Ile Cys Thr	Lys Lys Ile Ser Leu		

305

310

&lt;210&gt; 80

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Rattus sp

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Clone: I15

&lt;400&gt; 80

Met Thr Glu Glu Asn Gln Thr Val Ile Ser Gln Phe Leu Leu Leu Phe  
1 5 10 15

Leu Pro Ile Pro Ser Glu His Gln His Val Phe Tyr Ala Leu Phe Leu  
20 25 30

Ser Met Tyr Leu Thr Thr Val Leu Gly Asn Leu Ile Ile Ile Ile Leu  
35 40 45

Ile His Leu Asp Ser His Leu His Thr Pro Met Tyr Leu Phe Leu Ser  
50 55 60

Asn Leu Ser Phe Ser Asp Leu Cys Phe Ser Ser Val Thr Met Pro Lys  
65 70 75 80

Leu Leu Gln Asn Met Gln Ser Gln Val Pro Ser Ile Pro Phe Ala Gly  
85 90 95

Cys Leu Thr Gln Leu Tyr Phe Tyr Leu Tyr Phe Ala Asp Leu Glu Ser  
100 105 110

Phe Leu Leu Val Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Phe  
115 120 125

Pro Leu His Tyr Met Ser Ile Met Ser Pro Lys Leu Cys Val Ser Leu  
130 135 140

Val Val Leu Ser Trp Val Leu Thr Thr Phe His Ala Met Leu His Thr  
145 150 155 160

Leu Leu Met Ala Arg Leu Ser Phe Cys Ala Asp Asn Met Ile Pro His  
165 170 175

Phe Phe Cys Asp Ile Ser Pro Leu Leu Lys Leu Ser Cys Ser Asp Thr  
180 185 190

His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Leu Val Ile Val  
195 200 205

Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Ala Arg Val Val Ala Ser  
210 215 220

Ile Leu Lys Val Pro Ser Val Arg Gly Ile His Lys Ile Phe Ser Thr

225                      230                      235                      240  
 Cys Gly Ser His Leu Ser Val Val Ser Leu Phe Tyr Gly Thr Ile Ile  
                          245                      250                      255  
 Gly Leu Tyr Leu Cys Pro Ser Ala Asn Asn Ser Thr Val Lys Glu Thr  
                          260                      265                      270  
 Val Met Ala Met Met Tyr Thr Val Val Thr Pro Met Leu Asn Pro Phe  
                          275                      280                      285  
 Ile Tyr Ser Leu Arg Asn Arg Asp Met Lys Glu Ala Leu Ile Arg Val  
                          290                      295                      300  
 Leu Cys Lys Lys Lys Ile Thr Phe Cys Leu  
 305                      310

<210> 81  
 <211> 44  
 <212> PRT  
 <213> Rattus sp

<400> 81

Arg Val Asn Glu Val Val Ile Phe Ile Val Val Ser Leu Phe Leu Val  
 1                      5                      10                      15  
 Leu Pro Phe Ala Leu Ile Ile Met Ser Tyr Val Arg Ile Val Ser Ser  
                          20                      25                      30  
 Ile Leu Lys Val Pro Ser Ser Gln Gly Ile Tyr Lys  
                          35                      40

<210> 82  
 <211> 44  
 <212> PRT  
 <213> Rattus sp.

<400> 82

Phe Leu Asn Asp Leu Val Ile Tyr Phe Thr Leu Val Leu Leu Ala Thr  
 1                      5                      10                      15  
 Val Pro Leu Ala Gly Ile Phe Tyr Ser Tyr Phe Lys Ile Val Ser Ser  
                          20                      25                      30  
 Ile Cys Ala Ile Ser Ser Val His Gly Lys Tyr Lys  
                          35                      40

<210> 83  
 <211> 44  
 <212> PRT  
 <213> Rattus sp.

<400> 83

His Leu Asn Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met Val

1                    5                    10                    15  
 Thr Pro Phe Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Cys Ala  
                   20                    25                    30

Val Leu Arg Val Ser Ser Pro Arg Gly Gly Trp Lys  
                   35                    40

<210> 84  
 <211> 44  
 <212> PRT  
 <213> Rattus sp.

<400> 84

Gln Val Val Glu Leu Val Ser Phe Gly Ile Ala Phe Cys Val Ile His  
 1                    5                    10                    15

Gly Ser Cys Gly Ile Thr Leu Val Ser Tyr Ala Tyr Ile Ile Thr Thr  
                   20                    25                    30

Ile Ile Lys Ile Pro Ser Ala Arg Gly Arg His Arg  
                   35                    40

<210> 85  
 <211> 44  
 <212> PRT  
 <213> Rattus sp.

<400> 85

His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Ile Ile Leu Val  
 1                    5                    10                    15

Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Val Arg Ile Val Ser Ser  
                   20                    25                    30

Ile Leu Lys Val Pro Ser Ala Arg Gly Ile Arg Lys  
                   35                    40

<210> 86  
 <211> 44  
 <212> PRT  
 <213> Rattus sp.

<400> 86

Phe Pro Ser His Leu Thr Met His Leu Val Pro Val Ile Leu Ala Ala  
 1                    5                    10                    15

Ile Ser Leu Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser  
                   20                    25                    30

Ile Arg Ser Met Ser Ser Val Gln Gly Lys Tyr Lys  
                   35                    40

<210> 87

<211> 44  
<212> PRT  
<213> Rattus sp.

<400> 87

Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Ala Ala  
1 5 10 15

Ile Ser Phe Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser  
20 25 30

Ile His Ser Ile Ser Thr Val Gln Gly Lys Tyr Lys  
35 40

<210> 88  
<211> 44  
<212> PRT  
<213> Rattus sp.

<400> 88

Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Ala Ala  
1 5 10 15

Ile Ser Phe Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser  
20 25 30

Ile Arg Ser Val Ser Ser Val Lys Gly Lys Tyr Lys  
35 40

<210> 89  
<211> 44  
<212> PRT  
<213> Rattus sp.

<400> 89

Phe Leu Asn Asp Val Ile Met Tyr Phe Ala Leu Val Leu Leu Ala Val  
1 5 10 15

Val Pro Leu Leu Gly Ile Leu Tyr Ser Tyr Ser Lys Ile Val Ser Ser  
20 25 30

Ile Arg Ala Ile Ser Thr Val Gln Gly Lys Tyr Lys  
35 40

<210> 90  
<211> 44  
<212> PRT  
<213> Rattus sp.

<400> 90

His Glu Ile Glu Met Ile Ile Leu Val Leu Ala Ala Phe Asn Leu Ile  
1 5 10 15

Ser Ser Leu Leu Val Val Leu Val Ser Tyr Leu Phe Ile Leu Ile Ala  
20 25 30

Ile Leu Arg Met Asn Ser Ala Glu Gly Arg Arg Lys  
35 40

<210> 91  
<211> 44  
<212> PRT  
<213> Rattus sp.

<400> 91

Tyr Ile Asn Glu Leu Met Ile Phe Ile Met Ser Thr Leu Leu Ile Ile  
1 5 10 15

Ile Pro Phe Phe Leu Ile Val Met Ser Tyr Ala Arg Ile Ile Ser Ser  
20 25 30

Ile Leu Lys Val Pro Ser Thr Gln Gly Ile Cys Lys  
35 40

<210> 92  
<211> 44  
<212> PRT  
<213> Rattus sp.

<400> 92

Ser Thr Ala Glu Leu Thr Asp Phe Val Leu Ala Ile Phe Ile Leu Leu  
1 5 10 15

Gly Pro Leu Ser Val Thr Gly Ala Ser Tyr Met Ala Ile Thr Gly Ala  
20 25 30

Val Met Arg Ile Pro Ser Ala Ala Gly Arg His Lys  
35 40

<210> 93  
<211> 44  
<212> PRT  
<213> Rattus sp.

<400> 93

Tyr Val Asn Glu Leu Met Ile His Ile Met Gly Val Ile Ile Ile Val  
1 5 10 15

Ile Pro Phe Val Leu Ile Val Ile Ser Tyr Ala Lys Ile Ile Ser Ser  
20 25 30

Ile Leu Lys Val Pro Ser Thr Gln Ser Ile His Lys  
35 40

<210> 94  
<211> 44  
<212> PRT

<213> Rattus sp.

<400> 94

His Asp Asn Glu Leu Ala Ile Phe Ile Leu Gly Gly Pro Ile Val Val  
1 5 10 15

Leu Pro Phe Leu Leu Ile Ile Val Ser Tyr Ala Arg Ile Val Ser Ser  
20 25 30

Ile Phe Lys Val Pro Ser Ser Gln Ser Ile His Lys  
35 40

<210> 95

<211> 44

<212> PRT

<213> Rattus sp.

<400> 95

His Leu Asn Glu Leu Met Ile Leu Thr Glu Gly Ala Val Val Met Val  
1 5 10 15

Thr Pro Phe Val Cys Ile Leu Ile Ser Tyr Ile His Ile Thr Trp Ala  
20 25 30

Val Leu Arg Val Ser Ser Pro Arg Gly Gly Trp Lys  
35 40

<210> 96

<211> 44

<212> PRT

<213> Rattus sp.

<400> 96

Phe Pro Ser His Leu Ile Met Asn Leu Val Pro Val Met Leu Gly Ala  
1 5 10 15

Ile Ser Leu Ser Gly Ile Leu Tyr Ser Tyr Phe Lys Ile Val Ser Ser  
20 25 30

Val Arg Ser Ile Ser Ser Val Gln Gly Lys His Lys  
35 40

<210> 97

<211> 44

<212> PRT

<213> Rattus sp.

<400> 97

Tyr Val Asn Glu Leu Met Ile Tyr Ile Leu Gly Gly Leu Ile Ile Ile  
1 5 10 15

Ile Pro Phe Leu Leu Ile Val Met Ser Tyr Val Arg Ile Phe Phe Ser  
20 25 30

Ile Leu Lys Phe Pro Ser Ile Glx Asp Ile Tyr Lys  
35 40

<210> 98

<211> 44

<212> PRT

<213> Rattus sp.

<400> 98

His Val Asn Glu Leu Val Ile Phe Val Met Gly Gly Leu Val Ile Val  
1 5 10 15

Ile Pro Phe Val Leu Ile Ile Val Ser Tyr Ala Arg Val Val Ala Ser  
20 25 30

Ile Leu Lys Val Pro Ser Val Arg Gly Ile His Lys  
35 40